

FIG. 1

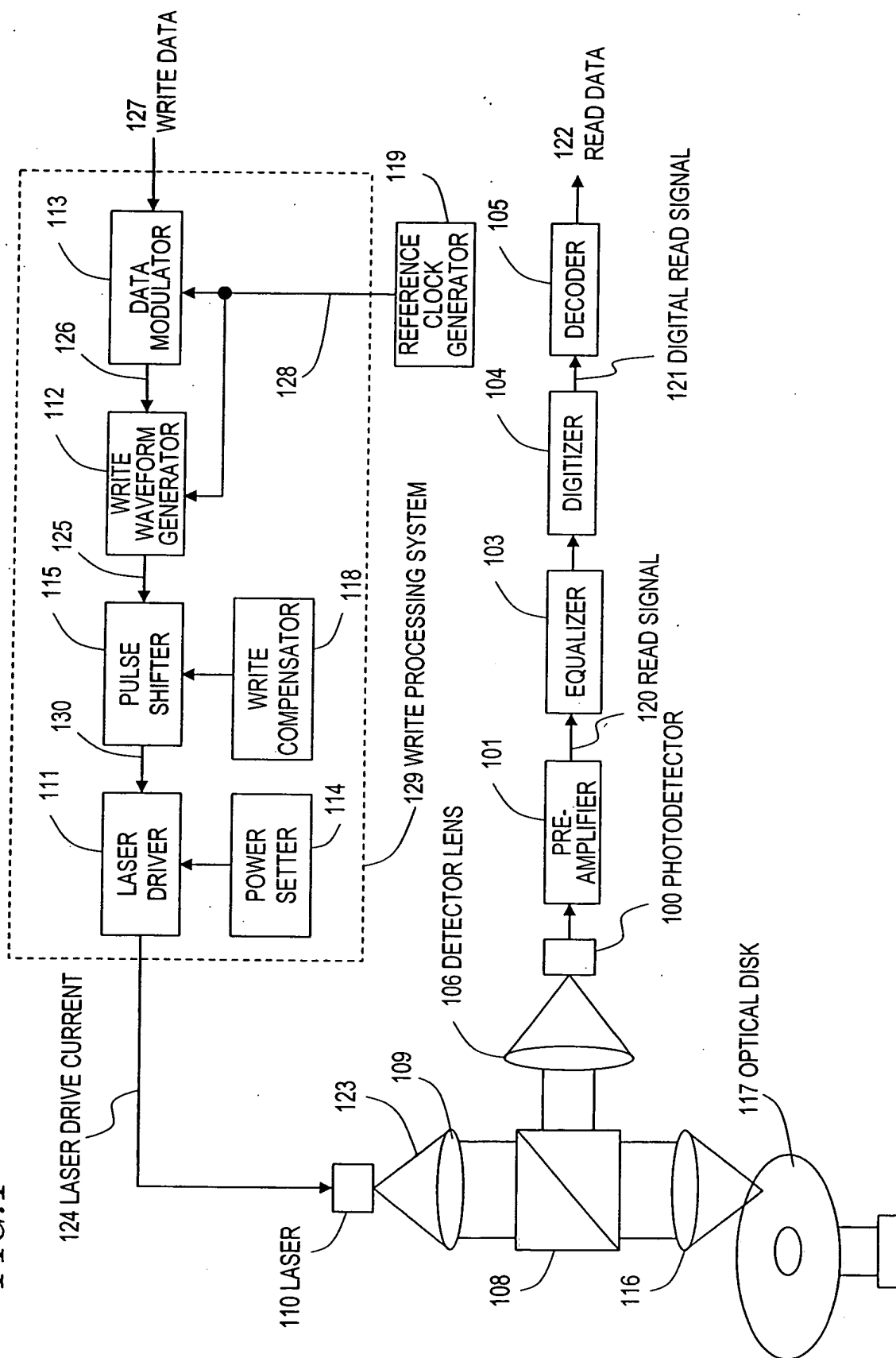


FIG. 2

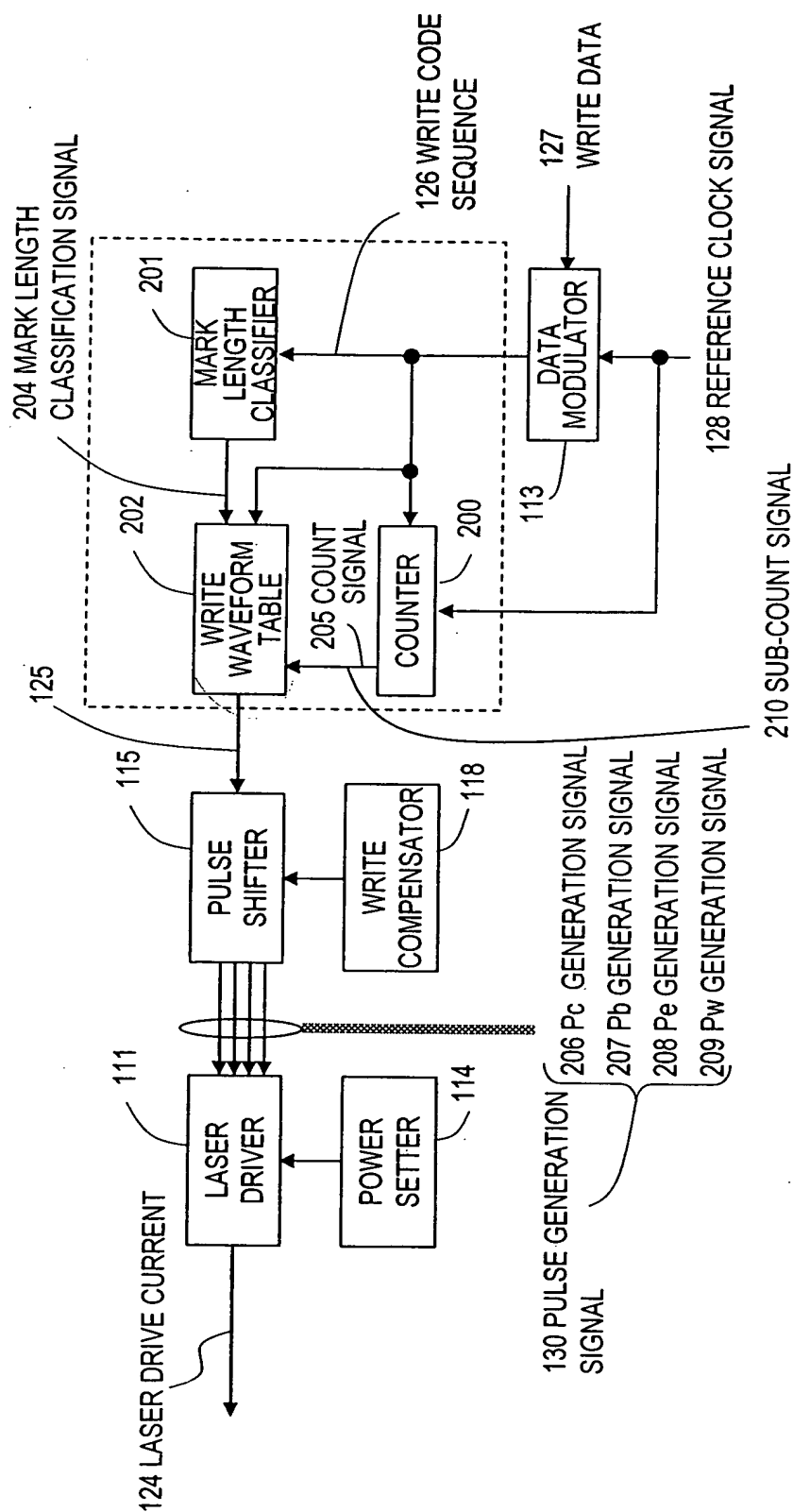


FIG. 3

(a): REFERENCE CLOCK
SIGNAL 128

(b): WRITE CODE
SEQUENCE 126

(c): MARK ARRANGEMENT 300

(d): COUNT SIGNAL 205

(e): MARK LENGTH
CLASSIFICATION
SIGNAL 307
IN CONVENTIONAL
APPARATUS

(f): WRITE PULSE TRAIN 303
IN CONVENTIONAL
APPARATUS

(g): MARK LENGTH
CLASSIFICATION
SIGNAL 204
IN APPARATUS OF
THIS INVENTION

(h): WRITE PULSE TRAIN 304
IN APPARATUS OF
THIS INVENTION

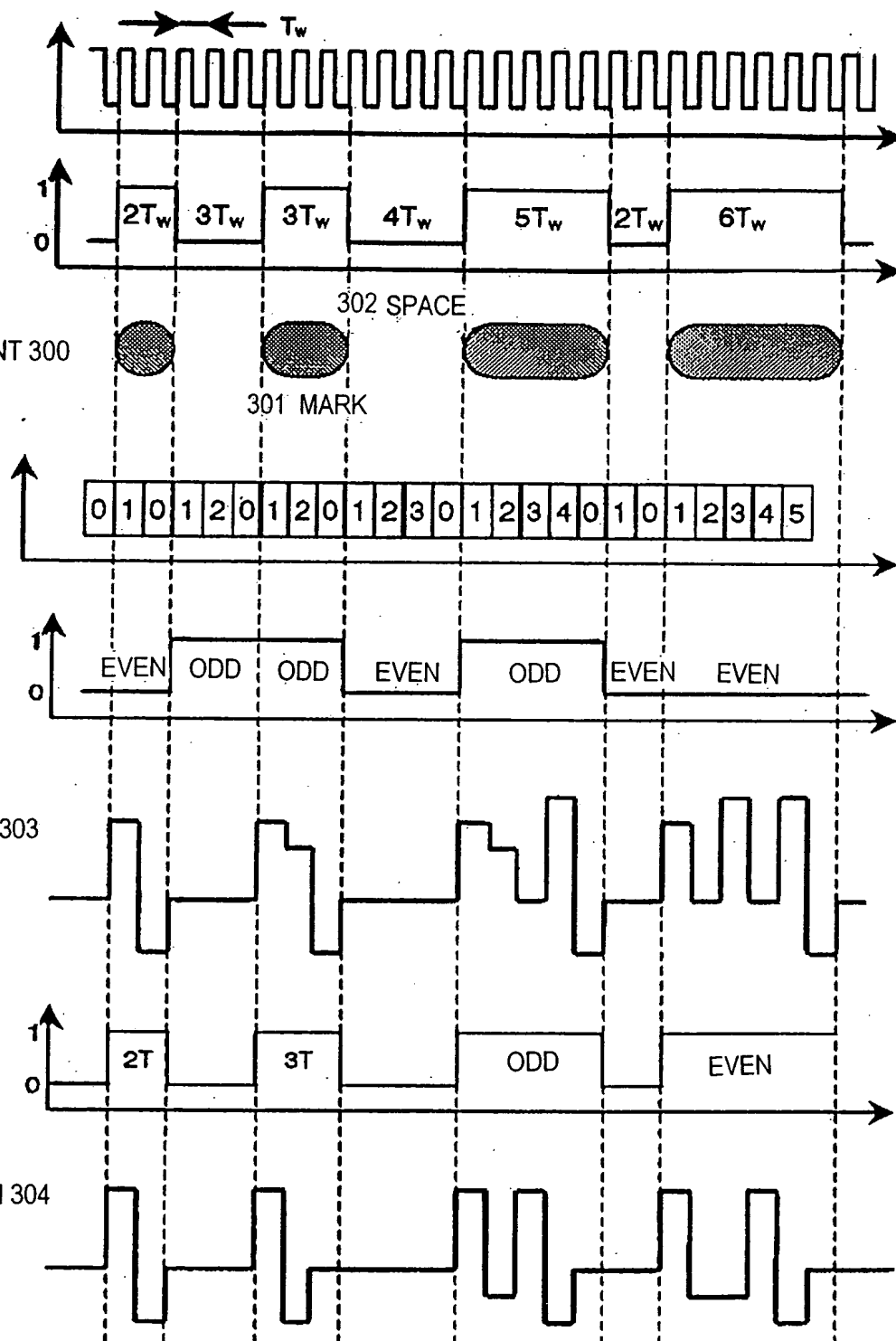


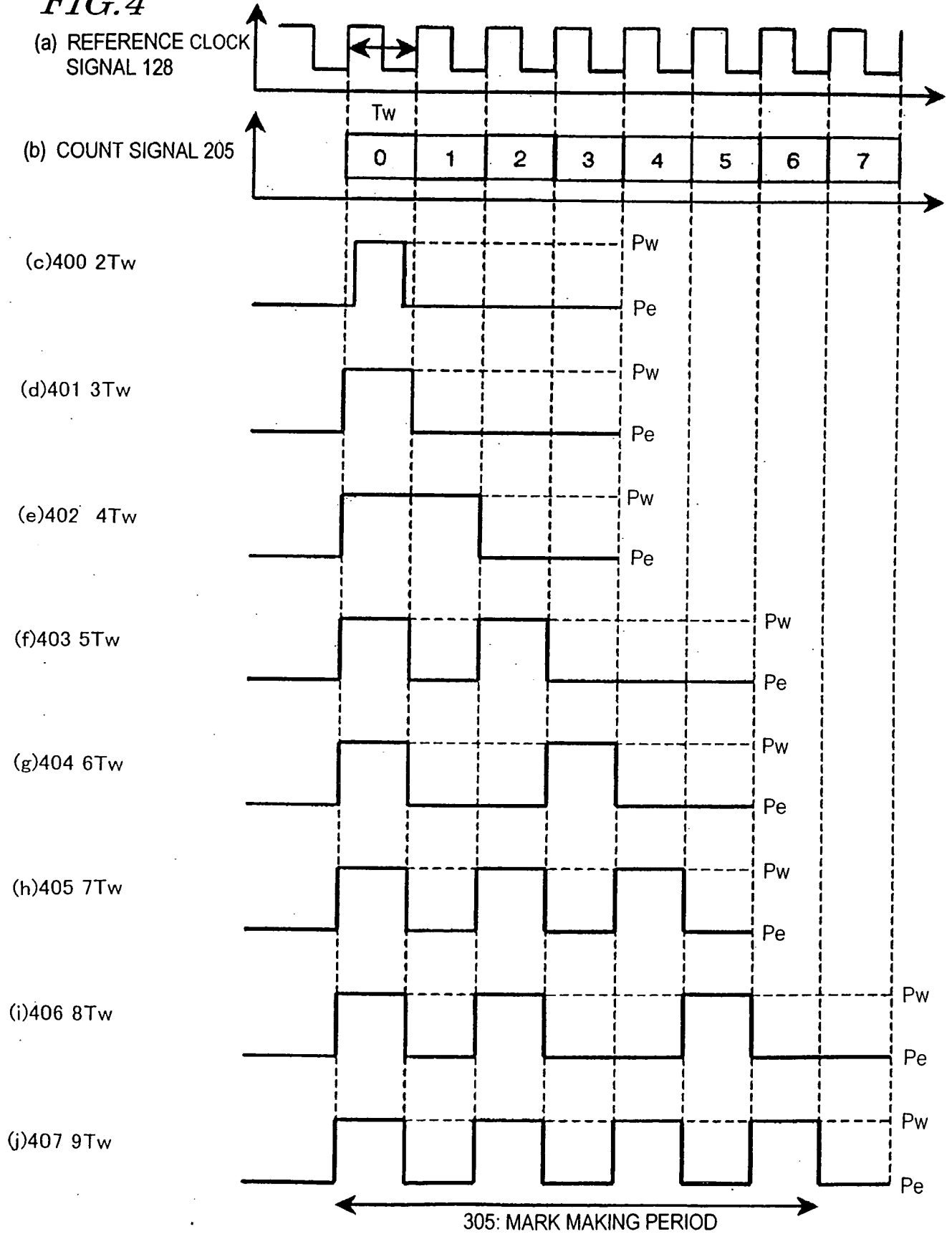
FIG. 4

FIG. 5

(a) REFERENCE CLOCK
SIGNAL 1028

(b) COUNT SIGNAL 1005

(c) 500 $2T_w$

(d) 501 $3T_w$

(e) 502 $4T_w$

(f) 503 $5T_w$

(g) 504 $6T_w$

(h) 505 $7T_w$

(i) 506 $8T_w$

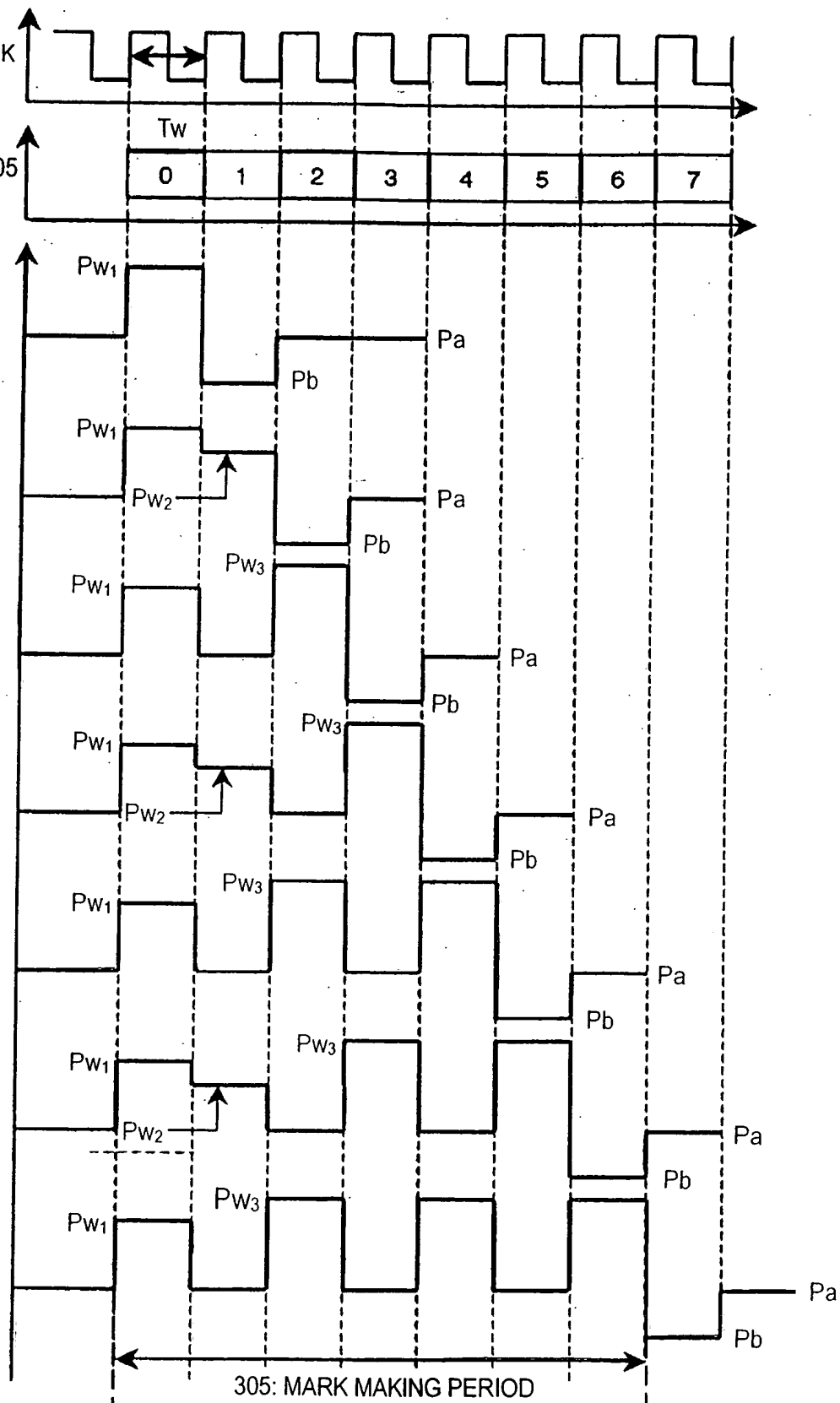


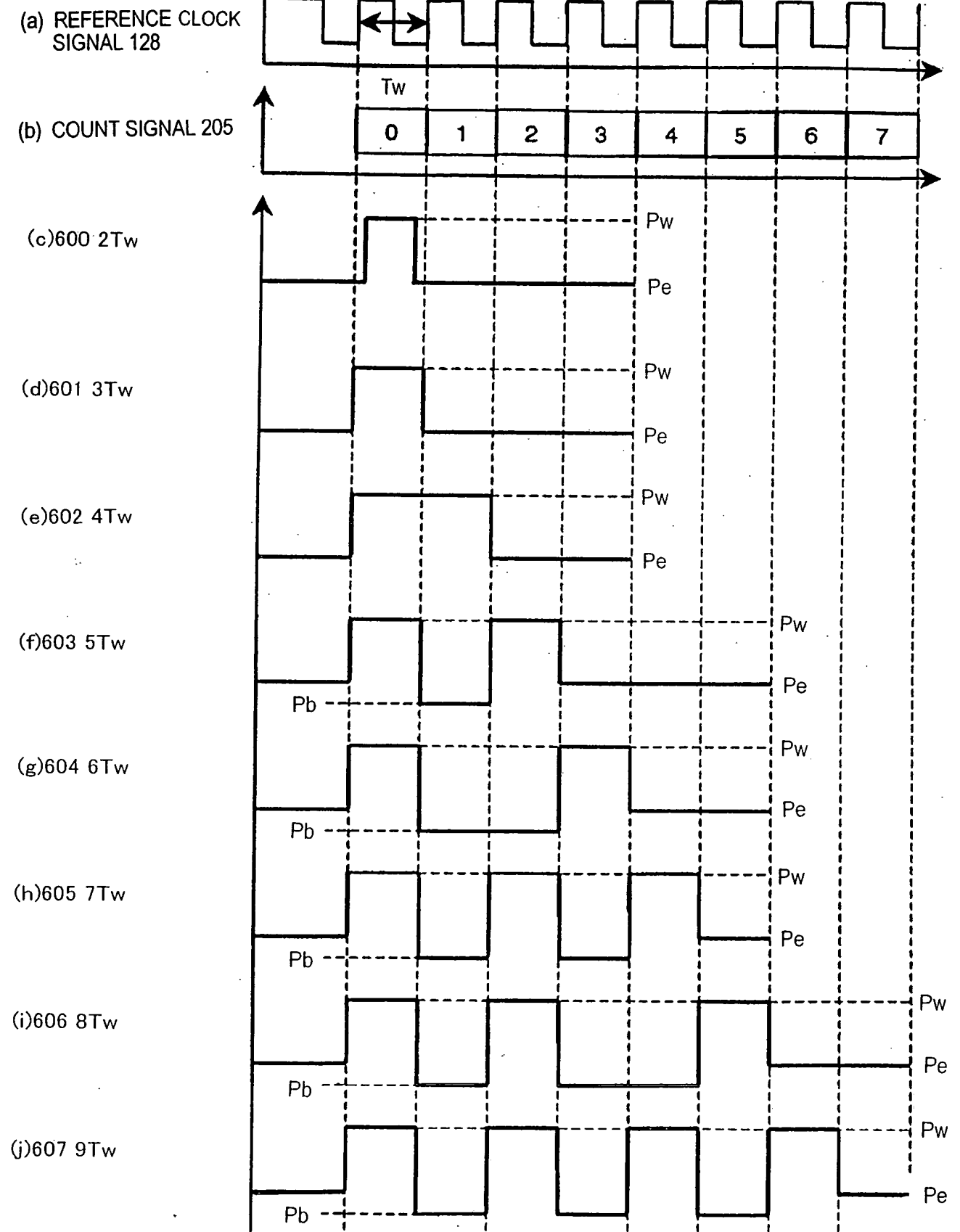
FIG. 6

FIG. 7

(a) REFERENCE CLOCK
SIGNAL 128

(b) COUNT SIGNAL 205

(c) 700 $2T_w$

(d) 701 $3T_w$

(e) 702 $4T_w$

(f) 703 $5T_w$

(g) 704 $6T_w$

(h) 705 $7T_w$

(i) 706 $8T_w$

(j) 707 $9T_w$

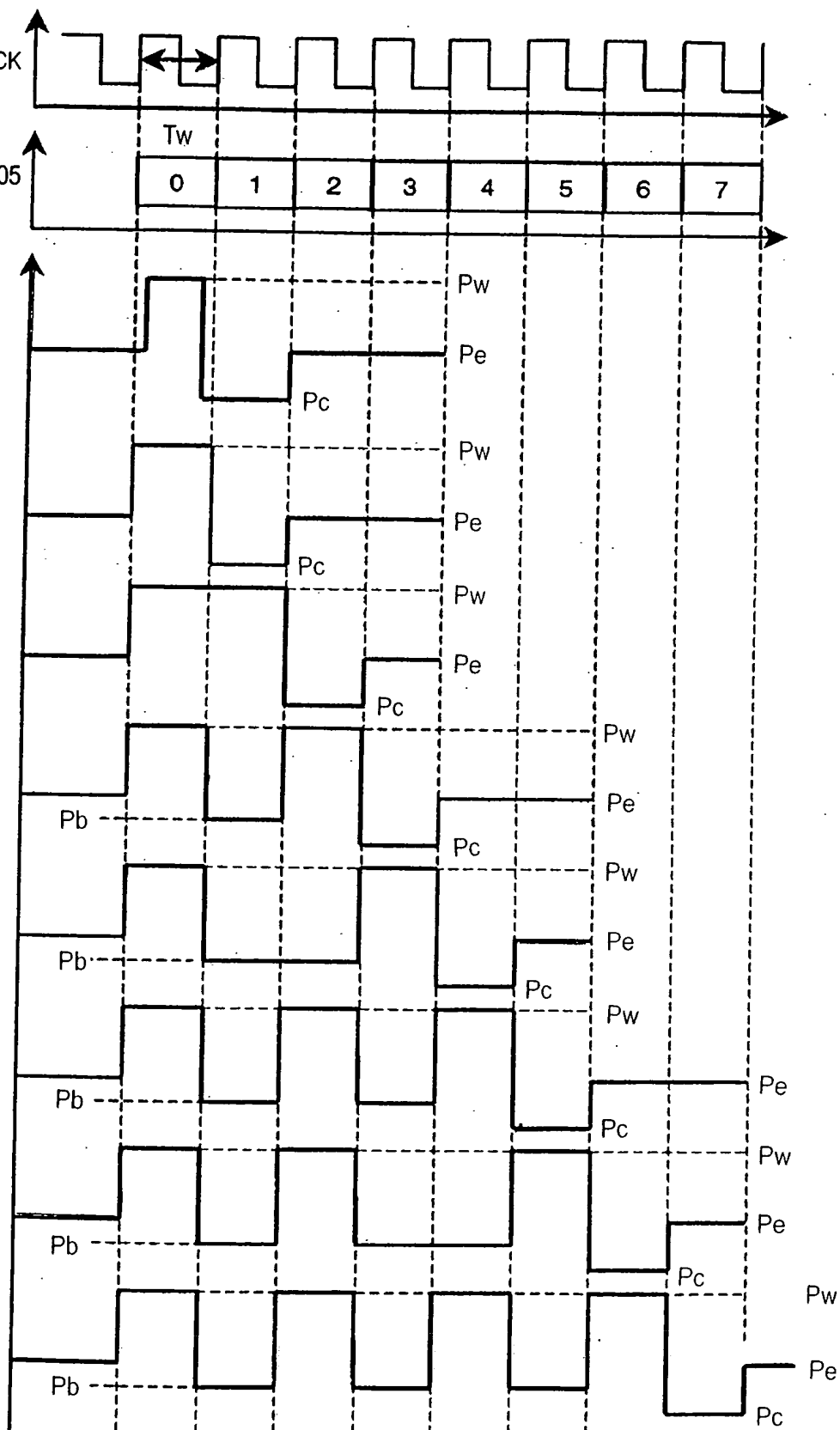
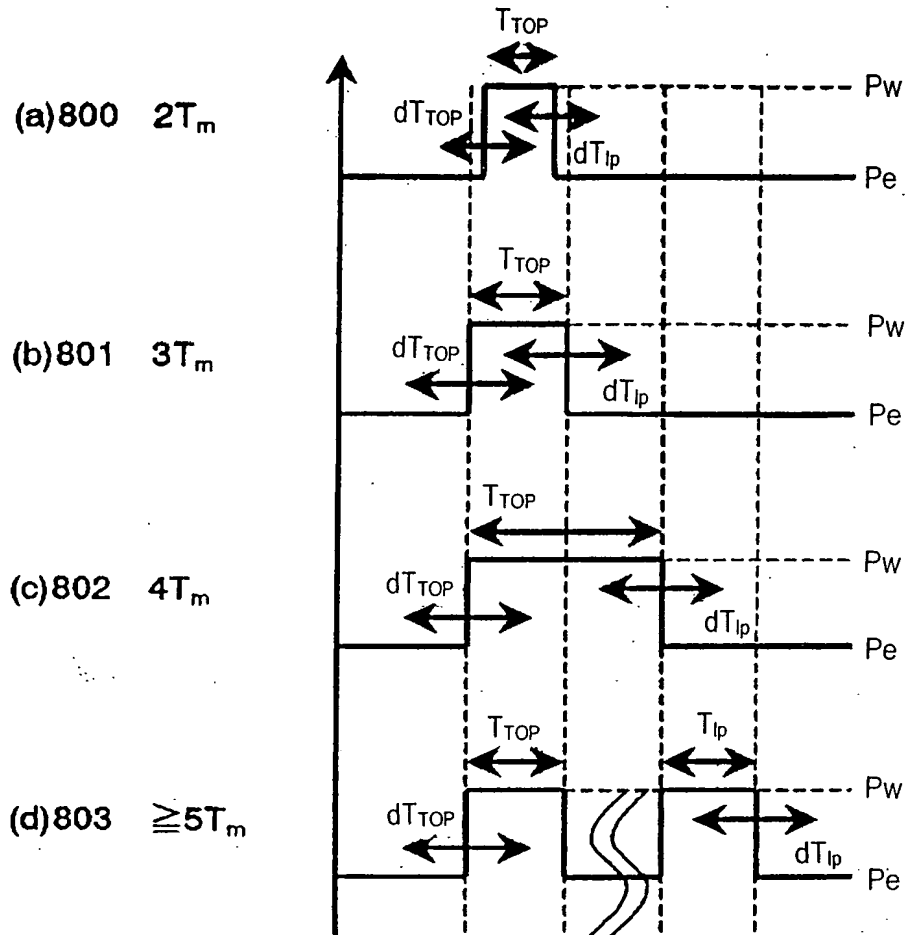


FIG. 8



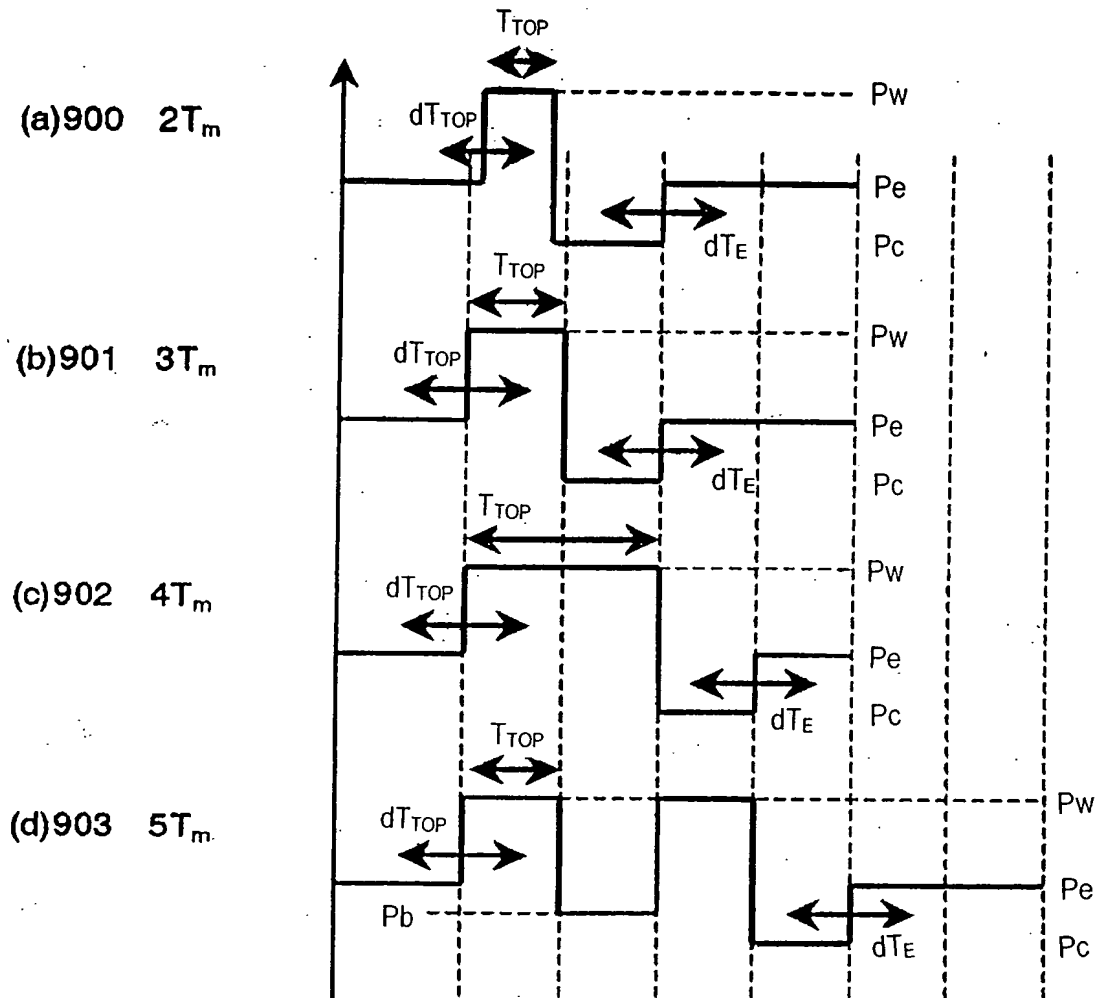
FIRST PULSE INCIDENCE POINT

	2T	3T	4T	$\geq 5T$
T_{TOP}				
dT_{TOP}				

LAST PULSE INCIDENCE POINT

	2T	3T	4T	$\geq 5T$
T_{lp}				
dT_{lp}				

FIG. 9



FIRST PULSE INCIDENCE POINT

	$2T$	$3T$	$4T$	$\geq 5T$
T_{TOP}				
dT_{TOP}				

COOLING PULSE INCIDENCE POINT

	$2T$	$3T$	$4T$	$\geq 5T$
T_E				

FIG. 10

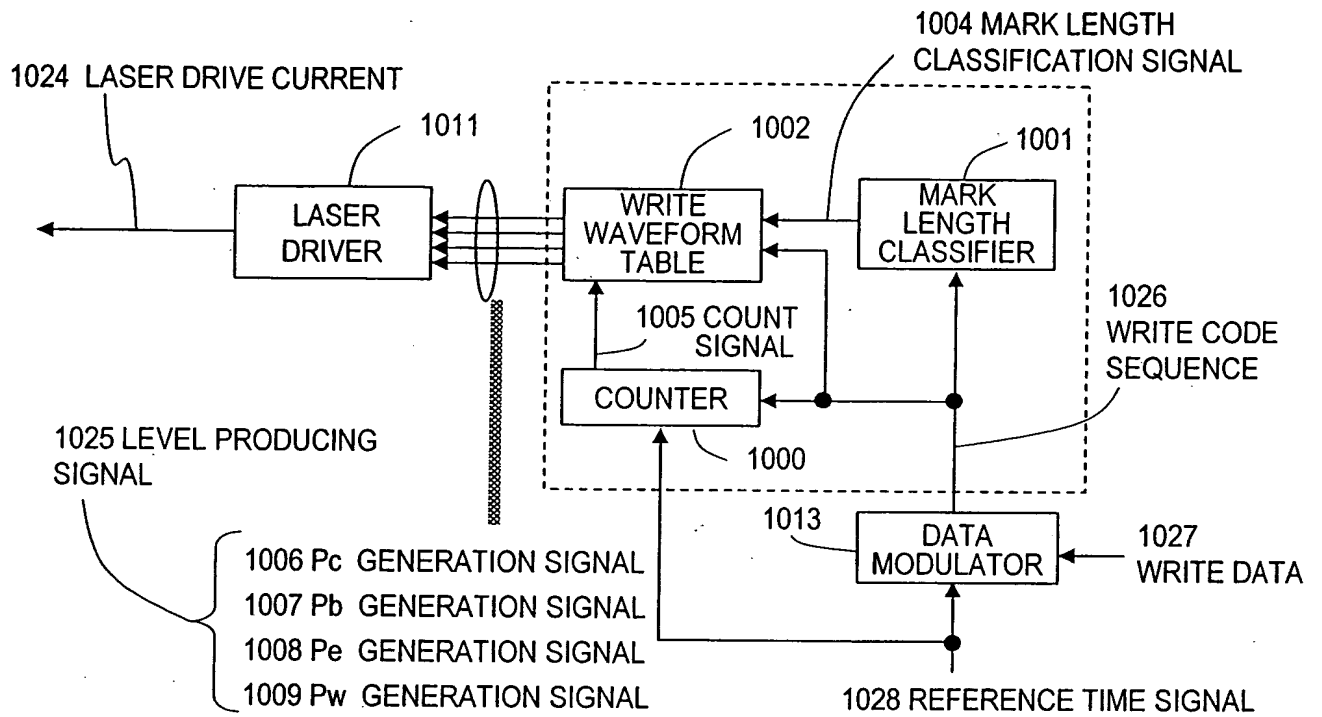


FIG. 11

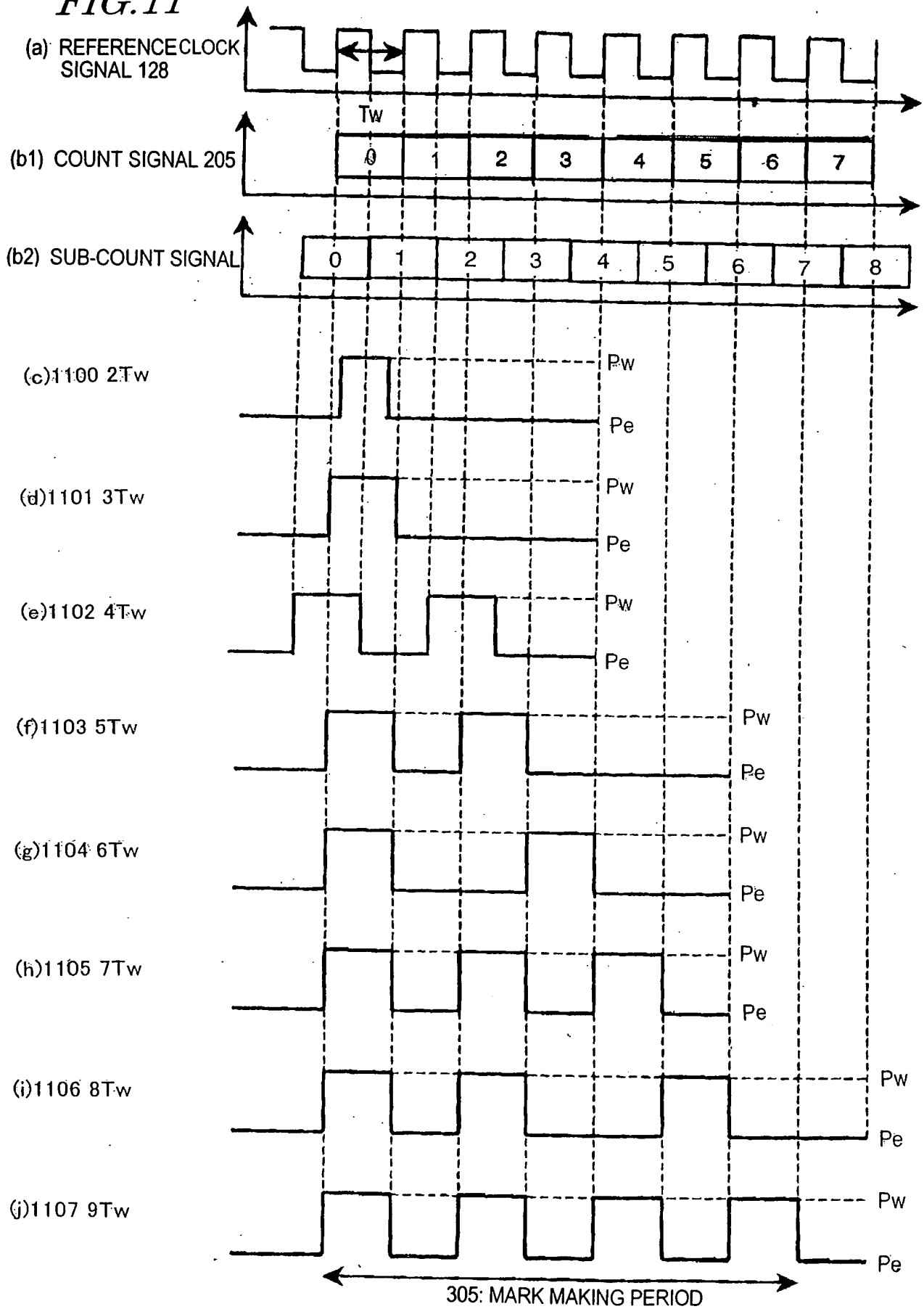


FIG. 12

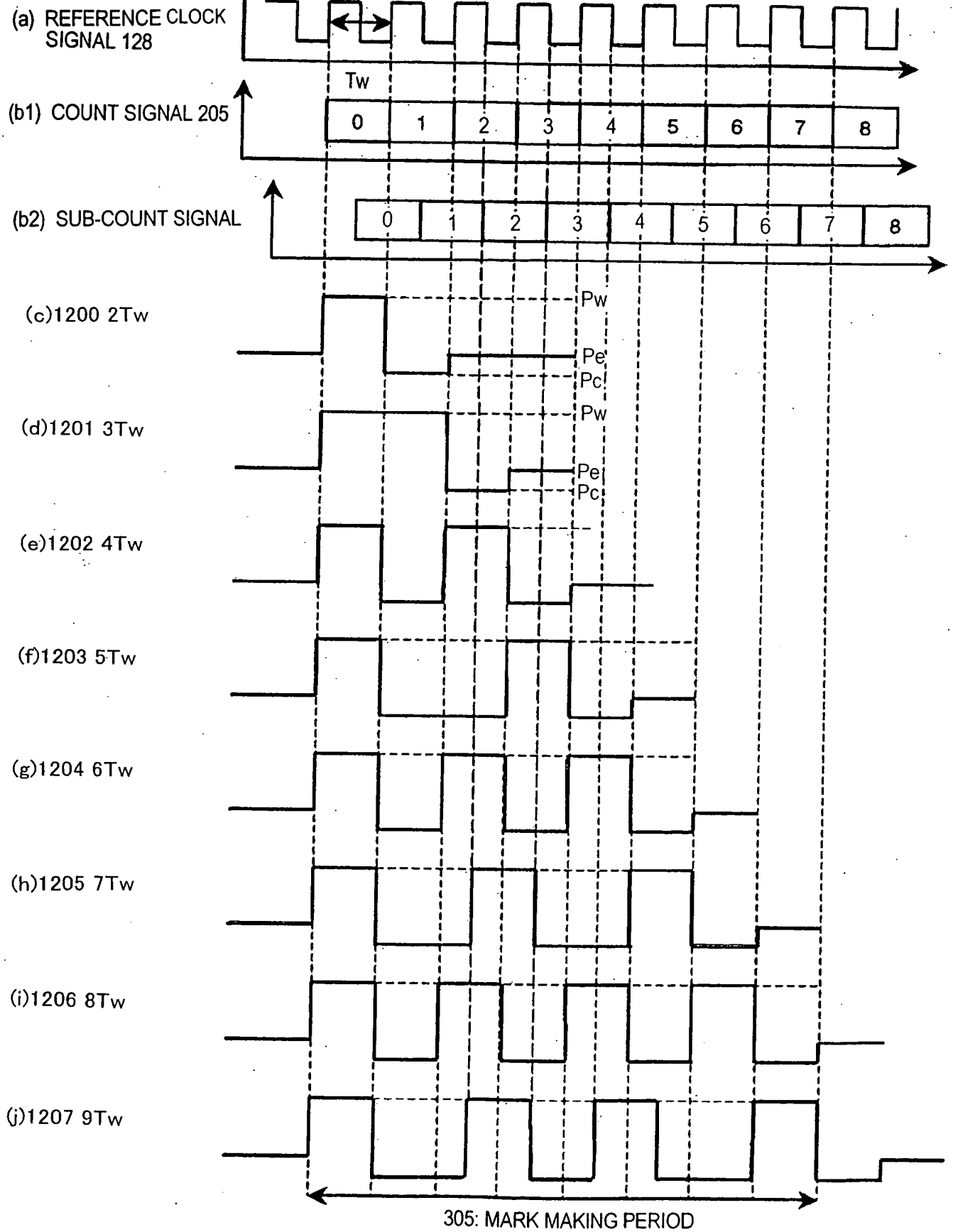


FIG.13